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(54) Title: RADIO STATION SITE IN A TELECOMMUNICATIONS NETWORK

(57) **Abstract:** A method is disclosed for selecting a subset of sites within a set of candidate sites for activating one or more radio stations of a telecommunications network, comprising the steps of: building an initial solution of a subset of sites (200) starting from a network configuration comprising the whole set of active candidate sites; and optimising (400, 500, 1000, 2000, 2400) the initial solution for activating "inactive" sites and/or deactivation "active" sites, in order to minimise a predetermined cost function (F_C) for the solution, characterised in that said steps of building (200) and optimising (500, 1000, 2000) the initial solution are adapted to define both solutions that have a geographic coverage area ($A_{\text{service}}^{\text{Nactivecells}}$) that is greater than a predefined minimum coverage area (A_{\min}) and to manage an amount of traffic ($T_{\text{carried}}^{\text{Nactivecells}}$) that is greater than a predefined minimum expected traffic value (T_{\min}). The invention also deals with a processing system and a processing program or group of programs that can be executed by the system, pre-arranged for performing the above method.